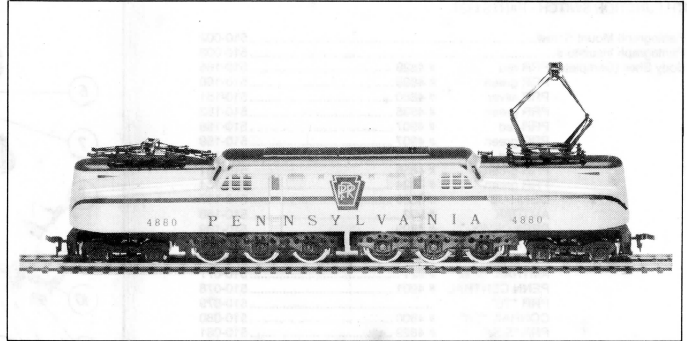




**INTERNATIONAL HOBBY CORPORATION**  
413 E. Allegheny Ave  
PHILADELPHIA, PA 19134  
Pennsylvania, USA

**ELECTRIC  
LOCO GG-1  
NEW VERSION  
WITH  
DIRECTIONAL  
LIGHTING**



Probably no other locomotive is more universally famous and recognized around the world than the Pennsylvania Railroad's GG-1 electric loco, with its unmistakeable streamlined design by Raymond Loewy. The first of these venerable locos took to the rails in 1934, and a total of 139 were built over the next ten years. Each loco could easily handle an 18-car passenger or high tonnage freight consist on the Pennsy's electrified trackage between New York and Washington, D.C. on the north-south runs, and west as far as Harrisburg, PA. The GG-1 fleet wore many paint schemes over its nearly 50 year life span with the Pennsy, Penn Central, Amtrak, Conrail and, finally NJ Transit. However, the mere mention of GG-1 typically brings to mind the 5-stripe "cat's whiskers" design on tuscan red passenger engines or brunswick green freight engines that seemed to shout, "PENNSY!"

**IHC POWERED EQUIPMENT AND COMPONENTS COME WITH  
A 90 DAY LIMITED WARRANTY.**

IHC will remedy any defect or malfunction occurring in any component within 90 days from date of purchase. This warranty does not extend to defects or malfunctions which are caused by damage (not resulting from the defect or malfunction) while the product is in the possession of any consumer, or by unreasonable use (including failure to provide proper lubrication) while the product is in the possession of any consumer.

This warranty is given in lieu of all expressed warranties, including but not limited to implied warranties. All implied warranties of fitness and merchantability, shall expire ninety (90) days from the date of purchase. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Under no circumstances shall IHC be responsible for any incidental or consequential damages arising in regard to any IHC product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.

In order to validate this warranty, the Owner Registration Card enclosed must be completed and mailed within ten (10) days after purchase of product: to IHC

PHILADELPHIA, PA 19134 USA.

If warranty service is required within ninety (90) days from the date of purchase, please send the component requiring service, postage prepaid, to IHC, Philadelphia, PA 19134. If warranty service is required after more than ninety days from date of purchase, please send the component requiring service, postage prepaid, with a check or money order for USD 5.00 to cover postage and handling to IHC, Philadelphia, PA 19134. In either case please write a letter explaining the nature of your difficulty and enclose it with the component.

At the option of IHC, the component will either be repaired or replaced, except that if either repair or replacement are not practicable, then a refund of the purchase price will be made. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

In the event you have questions concerning use and care of your purchase or any complaints concerning services, please write:

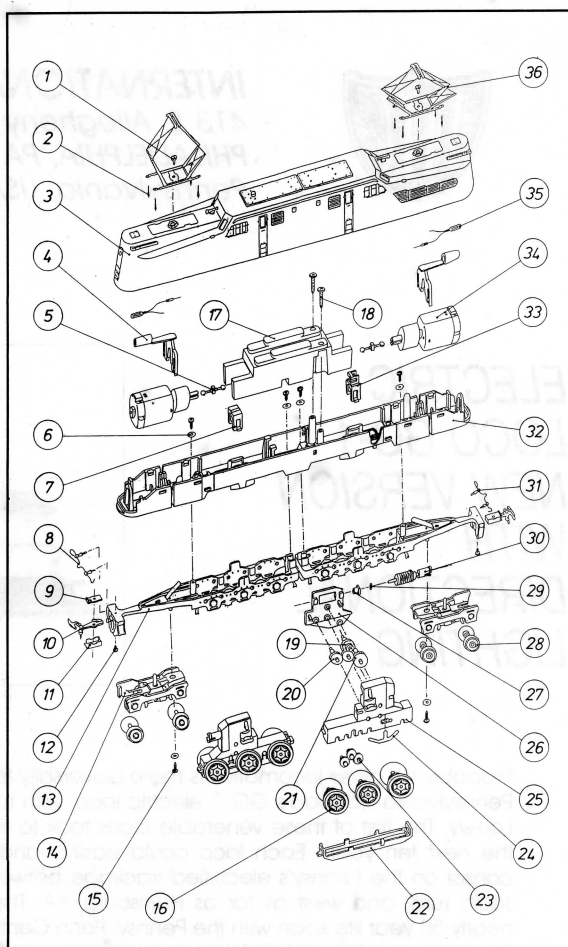
INTERNATIONAL HOBBY CORPORATION,  
PHILADELPHIA, PA 19134

**NOTE: BREAKAGE FROM DROPPING OR MISUSE IS NOT COVERED BY THIS WARRANTY.**

|                                       |        |                         |
|---------------------------------------|--------|-------------------------|
| M9650, PRR                            | RED    | road # 4828 - 5 Stripes |
| M9651, PRR                            | GREEN  | road # 4828 - 5 Stripes |
| M9652, PRR                            | SILVER | road # 4880 - 1 Stripe  |
| M9653, PRR "BLACK JACK"               | GREEN  | road # 4935 - 5 Stripes |
| M9654, PRR                            | RED    | road # 4907 - 1 Stripe  |
| M9655, PRR                            | GREEN  | road # 4907 - 1 Stripe  |
| M9656, PRR                            | RED    | road # 4856 - 5 Stripes |
| M9657, PRR                            | GREEN  | road # 4856 - 5 Stripes |
| M9658, PRR "GOLD FUTURA"              | GREEN  | road # 4824 - 5 Stripes |
| M9659, CONRAIL                        | BLUE   | road # 4800             |
| M9660, AMTRAK                         | BLACK  | road # 902              |
| M9661, PRE LOEWY                      | BLACK  | road # 4899             |
| M9662, AMTRAK "BLOODY NOSE"           | SILVER | road # 902 - 1 Stripe   |
| M9663, NJT "UGLY DUCKLING"            | BLACK  | road # 4876             |
| M9664, AMTRAK "SAVINGS BOND"          | BLACK  | road # 921              |
| M9665, PENN CENTRAL "KENNEDY FUNERAL" | BLACK  | road # 4901             |
| M9666, PRR "SPIRIT OF '76"            | WHITE  |                         |
| M9667, CONRAIL "SPIRIT OF '76"        | RED    | road # 4800             |
| M9668, PRR "SILVER STRIPES"           | GREEN  | road # 4829 - 5 Stripes |
| M9669, PRR "WASHINGTON CRASH"         | RED    | road # 4876 - 5 Stripes |

#### ELECTRIC LOKO GG-1 WITH FUNCTION SWITCH - PARTS LIST

|  |         |
|--|---------|
| 1. Pantograph Mount Screw.....   | 510-002 |
| 2. Pantograph Insulators.....  | 510-003 |
| 3. Body Shell (Complete).....  | 510-165 |
| PRR red # 4828.....  | 510-166 |
| PRR green # 4828.....  | 510-151 |
| PRR silver # 4880.....   | 510-163 |
| PRR green # 4935.....  | 510-158 |
| PRR red # 4907.....  | 510-159 |
| PRR green # 4907.....  | 510-160 |
| PRR red # 4856.....  | 510-161 |
| PRR green # 4856.....  | 510-164 |
| CONRAIL # 4800.....  | 510-167 |
| AMTRAK # 902.....  | 510-168 |
| PRE LOEWY # 4899.....  | 510-169 |
| AMTRAK "B.N." # 902.....   | 510-075 |
| NJT "U.D." # 4876.....   | 510-076 |
| AMTRAK "S. B." # 921.....  | 510-077 |
| PENN CENTRAL # 4901.....   | 510-078 |
| PRR "76".....  | 510-079 |
| CONRAIL "76" # 4800.....   | 510-080 |
| PRR "S.S." # 4829.....   | 510-081 |
| PRR "W.C." # 4876.....   | 510-082 |
| 4. Motor Holder.....   | 510-085 |
| 5. Drive Shaft.....  | 510-089 |
| 6. Thrust Washer.....  | 510-092 |
| 7. Front Truck Clip.....   | 325-007 |
| 8. Coupler Lift Bar.....   | 510-056 |
| 9. Coupler Cover.....  | 500-024 |
| 10. Coupler.....   | 475-035 |
| 11. Coupler Cover Segment.....   | 500-025 |
| 12. Coupler Mount Screw.....   | 136-112 |
| 13. Main Truck Frame w/Spring Plate Riveted.....                         | 510-141 |
| 14. Front and Rear Truck w/Spring.....                                   | 510-012 |
| 15. Main Truck Frame & Pilot Truck Screw.....                            | 521-002 |
| 16. Geared Drivers.....  | 510-032 |
| 17. Weight.....  | 510-084 |
| 18. Weight mount Screw.....  | 510-090 |
| 19. Double Idler Gear.....   | 475-029 |
| 20. Small Idler Gear.....  | 475-032 |
| 21. Large Idler Gear.....  | 475-031 |
| 22. Wheel Tower Cover.....   | 510-131 |
| 23. Idler gear.....  | 500-029 |
| 24. Pick - Ups.....  | 325-012 |
| 25. Gear Box Tower.....  | 500-028 |
| 26. Gear Tower Cover.....  | 475-030 |
| 27. Shaft Bearing.....   | 325-029 |
| 28. Pilot Truck Wheel.....   | 510-013 |
| 29. Thrust Washer.....   | 510-096 |
| 30. Worm Gear w/Shaft, Shaft Bearing, Thrust Washer & Worm Coupling..... | 510-091 |
| 31. Handrail Post.....   | 521-018 |
| 32. Underframe - w/Switch & Contacts Riveted.....                        | 510-157 |
| 33. Rear Truck Clip.....   | 325-067 |
| 34. Motor w/Flywheel & Motor Shaft Coupling.....                         | 510-083 |
| 35. Light Bulb w/Wires & Diode.....                                      | 510-095 |
| 36. Pantograph.....  | 510-001 |



#### LUBRICATION

For efficient economical operation, proper lubrication is important. To lubricate axles, gears and bearings the body shell is to be removed. Carefully pull body shell apart from underframe. Now remove carefully both, front and rear truck clips from wheel towers. At this point pull wheel towers carefully from main truck frames. Put a drop of lubricant on the gear axle ends on wheel tower side and on the worm shaft bearings on the wheel tower top. For further lubrication the wheel tower cover is to be removed. Now you can lubricate wheel axle bearings and gears inside wheel tower. For lubrication use a plastic compatible lubricant only, for heavy service use a lubricant with tack additive. For antirip adherence, we recommend: Gear Lube HL 655 or its equivalent. When finished replace wheel tower cover first and then the wheel tower into main truck frame paying attention to fit the drive shaft properly motor shaft coupling. Fix both clips on the wheel towers properly.

## ELECTRIC POWER PICK-UP

This locomotive has been equipped with a switch that electrically isolates one set of electric wheel pick-ups from the pantographs. It is located on the underside of the chassis (see diagram), and easily enables you to change from track electric power pick-up (switch setting "T") to overhead "catenary" wire pick-up using the pantographs (switch setting "◇"). This feature allows operation of this locomotive completely independent from a steam or diesel locomotive on the same track which has been correctly wired using a common rail method of electrical connection (consult any of a variety of model railroad publications that describe common rail power connections). When the switch is set to "◇", electrical pick-up will be through the pantographs and the wheels along the other side of the locomotive as the switch is located. It should be factory set to "T" for track power pick-up.

#### ELECTRICAL DATA

Maximum Draw : 0,50 Ampere  
Maximum Voltage : 12 V DC